# AUSTRALASIAN ANNALS OF MEDICINE

*Journal of The Royal Australasian College of Physicians*

VOLUME IX, 1960, NUMBERS 1 – 4

EDITORIAL COMMITTEE

C. G. McDonald (*Chairman*), Sir Edward Ford
C. R. B. Blackburn, R. L. Harris, Bruce Hall
John Read, H. M. Whyte
Ralph Reader (*Secretary*)
Ronald Winton (*Editor*)

DOMINION AND STATE REPRESENTATIVES

*New Zealand*
M. K. Gray, J. O. Mercer, E. G. Sayers, Sir Horace Smirk

*Queensland*
Ian Mackerras
John Tyrer

*South Australia*
A. A. Abbie
H. N. Robson
E. B. Sims

*Tasmania*
J. L. Grove
Sir Ralph Whishaw

*Victoria*
E. S. J. King
T. E. Lowe
Sir Macfarlane Burnet
A. J. M. Sinclair

*Western Australia*
Cyril Fortune, Eric Saint

# CONTENTS

## Volume 9, Number 1


| | Page |
|---|---|
| Editorial: The Sanctity of Life | 1 |
| The Casual Arterial Pressure of Fijians and Indians in Fiji. *R. R. H. Lovell, I. Maddocks and G. W. Rogerson* | 4 |
| Primary Pulmonary Hypertension in Eight Patients including a Mother and Her Daughter. *H. Fleming* | 18 |
| Clinico-Pathological Features of Acute Hæmorrhagic Leuco-encephalitis. *G. K. Vanderfield, Marion Tompkins and Tatiana Jelihovsky* | 29 |
| Observations on the Treatment of Severe Diabetic Ketosis. *Bryan Hudson, Marjorie Bick and F. I. R. Martin* | 34 |
| Humoral Factors in Liver Regeneration. *P. E. Hughes* | 41 |
| Anæmia of Renal Origin, Studied by Microdissection of the Kidney. *Dora Bialestock* | 44 |
| Morphogenesis of Unilateral Multicystic Kidney in Childhood. *Dora Bialestock* | 53 |
| Serum Complement Levels in Systemic Lupus Erythematosus and Other Diseases. *G. L. Asherson* | 57 |
| The Use of an Aldosterone Antagonist in Patients with Cirrhosis. *M. R. Playoust and C. R. B. Blackburn* | 64 |
| The Concept of a Volume Receptor. *T. E. Lowe* | 69 |
| Proceedings of The Royal Australasian College of Physicians | 74 |


## Volume 9, Number 2


| | Page |
|---|---|
| Editorial: The Inquiring Mind | 81 |
| Autoimmunity in Human Thyroid Disease. *Ian R. Mackay and Beverley T. Perry* | 84 |
| Complement Fixation with Extract of Normal Thyroid Gland: Its Occurrence in Sera from Patients with Thyroid Disease and in Other Conditions. *Earle Hackett, Margaret Beech and Ian J. Forbes* | 93 |
| Precipitin Tests for Auto-Immunizing Thyroiditis. *D. Watson* | 99 |
| Small-Bowel Biopsy with the Suction Biopsy Tube. *Mary Ralston, I. J. Wood and A. Hughes* | 103 |
| Gastric Ulcer: Age, Sex, and a Curious Retrogression. *B. P. Billington* | 111 |
| The Effects of Diet on the Blood Coagulation Response to Alimentary Lipæmia in Healthy and Atherosclerotic Men. *R. B. Goldrick* | 122 |
| Serum Lipoproteins and Blood Coagulation in Healthy and Atherosclerotic Men. *R. B. Goldrick* | 134 |
| The "Q" Wave and High Chest Leads: An Analysis of 425 Cases. *Zelman Freeman* | 144 |
| Chronic Pyelonephritis and Hypertension. *J. F. Gwynne* | 150 |
| The Role of Physical Thought in Medical Research. *K. T. Fowler and C. R. B. Blackburn* | 157 |

## Volume 9, Number 3


| | Page |
|---|---|
| Editorial: Close to the Problems of Disease | 165 |
| Heredity in Primary Gout. *B. T. Emmerson* | 168 |
| Report of a Family Showing "Mirror" Movements. *Charles Crawford* | 176 |
| The Seasonal Distribution of Hospital Admissions for Asthma in Brisbane. *E. H. Derrick, R. H. Thatcher and L. G. Trappett* | 180 |
| Primary Aldosteronism—Conn's Syndrome. Some Observations on the Effect of an Aldosterone Antagonist, Spironolactone, and Vasopressin. *F. O. Simpson and A. J. Barnett* | 188 |
| Thyroid-Stimulating Hormone and Triiodothyronine as Aids in the Diagnosis of Thyroid Disorders. *Bryan Hudson, Dora Winikoff, H. Pincus Taft and F. I. R. Martin* | 194 |
| Changes in Urinary Steroid Excretion during Examinations. *Roger Melick* | 200 |
| Veno-Arterial Shunting of Blood in Chronic Liver Disease. *C. R. B. Blackburn, John Read, J. McRae, H. J. Colebatch, M. R. Playoust and R. A. B. Holland* | 204 |
| Plasma Iron and Iron-Binding Capacity Levels in Health and Disease: With an Improved Method for the Estimation of Plasma Iron Concentration and Total Iron-Binding Capacity. *E. H. Morgan and Graeme Carter* | 209 |
| "Q" Fever: Clinical Features in 72 Cases. *Owen Powell* | 214 |
| Dividends from Mitral Valvotomy: A Two to Seven Years' Follow-Up. *B. M. Learoyd, R. B. Blacket, B. C. Sinclair-Smith, F. H. Mills, J. H. Halliday and J. K. Maddox* | 224 |
| The Relationship between Blood Fibrinolytic Activity, Serum Lipoproteins and Serum Cholesterol in Atherosclerotic Arterial Disease. *P. J. Nestel* | 234 |
| Red-Cell Metabolism: Fundamental and Clinical Aspects. *G. C. de Gruchy* | 237 |
| Proceedings of The Royal Australasian College of Physicians | 247 |


---

## Volume 9, Number 4


| | Page |
|---|---|
| Editorial: Hominum Servire Saluti | 255 |
| The Cardiomyopathies: A Report of Fifty Cases. *John B. Hickie and George V. Hall* | 258 |
| Acute Diffuse Interstitial Pulmonary Fibrosis in Scleroderma. *John Read, H. J. H. Colebatch and K. Viner Smith* | 271 |
| Urinary Amino-Acid Excretion in Health and Disease. *B. L. Hillcoat* | 276 |
| The Failure of Experimental Renal Tubulonecrosis to Produce Oliguria in the Rat. *E. S. Finckh* | 283 |
| Experimental Cholangitis following Biliary Obstruction. *P. M. Ronai and F. R. Magarey* | 289 |
| Plasma Transaminase in Liver Disease. *E. N. O'Brien, Betty Paterson, Mary Ralston and Ian R. Mackay* | 295 |
| A Case of Protein-Losing Enteropathy. *Zelman Freeman* | 303 |
| Serum Vitamin $B_{12}$ Levels in Chronic Atrophic Gastritis. *I. J. Wood, D. C. Cowling, B. Ungar and A. Gray* | 309 |
| Bone Changes Associated with Cortisone Administration in the Rat: Conversion of "Rickets" to "Osteoporosis". *E. Storey* | 318 |
| Calcium Metabolism. *Lyal Watson* | 326 |

# INDEX


## A

Page

Aldosterone Antagonist—The Use of an, in Patients with Cirrhosis, by M. R. Playoust and C. R. B. Blackburn .. .. .. 64
Aldosteronism, Primary—Conn's Syndrome. Some Observations on the Effect of an Aldosterone Antagonist, Spironolactone, and Vasopressin, by F. O. Simpson and A. J. Barnett .. 188
Anæmia of Renal Origin, Studied by Microdissection of the Kidney, by D. Bialestock .. 44
Arterial Pressure, Casual, The, of Fijians and Indians in Fiji, by R. R. H. Lovell, I. Maddocks and G. W. Rogerson .. .. .. .. 4
Asherson, G. L.—Serum Complement Levels in Systemic Lupus Erythematosus and Other Diseases .. .. .. .. .. .. 57
Asthma, Hospital Admissions for, in Brisbane—The Seasonal Distribution of, by E. H. Derrick, R. H. Thatcher and L. G. Trappett .. .. 180
Atherosclerotic Arterial Disease—The Relationship between Blood Fibrinolytic Activity, Serum Lipoproteins and Serum Cholesterol in, by P. J. Nestel .. .. .. .. .. 234
Autoimmunity in Human Thyroid Disease, by I. R. Mackay and B. T. Perry.. .. .. 84

## B

Barnett, A. J., and Simpson—Primary Aldosteronism—Conn's Syndrome. Some Observations on the Effect of an Aldosterone Antagonist, Spironolactone, and Vasopressin.. 188
Beech, M., *et alii*—Complement Fixation with Extract of Normal Thyroid Gland: Its Occurrence in Sera from Patients with Thyroid Disease and in Other Conditions .. .. 93
Bialestock, D.—
  Anæmia of Renal Origin, Studied by Microdissection of the Kidney .. .. .. 44
  Morphogenesis of Unilateral Multicystic Kidney in Childhood .. .. .. .. .. 53
Bick, M., *et alii*—Observations on the Treatment of Severe Diabetic Ketosis .. .. .. 34
Billington, B. P.—Gastric Ulcer: Age, Sex, and a Curious Retrogression .. .. .. .. 111
Biopsy, Small-Bowel, with the Suction Biopsy Tube, by M. Ralston, I. J. Wood and A. Hughes 103
Blackburn, C. R. B.—
  And Fowler—The Role of Physical Thought in Medical Research .. .. .. .. 157
  And Playoust—The Use of an Aldosterone Antagonist in Patients with Cirrhosis .. 64
  *Et alii*—Veno-Arterial Shunting of Blood in Chronic Liver Disease .. .. .. 204
Blacket, R. B., *et alii*—Dividends from Mitral Valvotomy: A Two to Seven Years' Follow-Up 224
Blood—Veno-Arterial Shunting of, in Chronic Liver Disease, by C. R. B. Blackburn, J. Read, J. McRae, H. J. Colebatch, M. R. Playoust and R. A. B. Holland .. .. .. .. 204

Page

Blood Coagulation.
  (*See also* Diet.)
  (*See also* Lipoproteins.)
Blood Fibrinolytic Activity (*see also* Atherosclerotic Arterial Disease).
Bone Changes Associated with Cortisone Administration in the Rat. Conversion of Rickets to Osteoporosis, by E. Storey .. .. .. 318

## C

Calcium Metabolism, by L. Watson .. .. 326
Cardiomyopathies, The: A Report of Fifty Cases, by J. B. Hickie and G. V. Hall.. .. .. 258
Carter, G., and Morgan—Plasma Iron and Iron-Binding Capacity Levels in Health and Disease: With an Improved Method for the Estimation of Plasma Iron Concentration and Total Iron-Binding Capacity .. .. .. .. 209
Cholangitis, Experimental, following Biliary Obstruction, by P. M. Ronai and F. R. Magarey 289
Cholesterol, Serum (*see also* Atherosclerotic Arterial Disease).
Cirrhosis (*see also* Aldosterone Antagonist).
Colebatch, H. J. H., *et alii*—
  Acute Diffuse Interstitial Pulmonary Fibrosis in Scleroderma.. .. .. .. .. 271
  Veno-Arterial Shunting of Blood in Chronic Liver Disease .. .. .. .. .. 204
Complement Fixation with Extract of Normal Thyroid Gland: Its Occurrence in Sera from Patients with Thyroid Disease and in Other Conditions, by E. Hackett, M. Beech and I. J. Forbes .. .. .. .. .. 93
Conn's Syndrome (*see also* Aldosteronism).
Cortisone Administration in the Rat—Bone Changes Associated with. Conversion of Rickets to Osteoporosis, by E. Storey.. .. 318
Cowling, D. C., *et alii*—Serum Vitamin $B_{12}$ Levels in Chronic Atrophic Gastritis .. .. .. 309
Crawford, C.—Report of a Family Showing "Mirror" Movements .. .. .. .. 176

## D

De Gruchy, G. C.—Red-Cell Metabolism: Fundamental and Clinical Aspects .. .. .. 237
Derrick, E. H.—
  Close to the Problems of Disease .. .. 165
  *Et alii*—The Seasonal Distribution of Hospital Admissions for Asthma in Brisbane .. 180
Diabetic Ketosis, Severe—Observations on the Treatment of, by B. Hudson, M. Bick and F. I. R. Martin .. .. .. .. .. 34
Diet—The Effects of, on the Blood Coagulation Response to Alimentary Lipæmia in Healthy and Atherosclerotic Men, by R. B. Goldrick .. 122
Disease—Close to the Problems of, by E. H. Derrick .. .. .. .. .. .. 165

**E**

Page

Editorial—
Close to the Problems of Disease, by E. H. Derrick .. .. .. .. .. 165
*Hominum Servire Saluti*, by W. Henley .. 255
Inquiring Mind, The, by H. N. Robson .. 81
Sanctity of Life, The, by R. R. Winton.. .. 1
Emmerson, B. T.—Heredity in Primary Gout .. 168

**F**

Fibrosis—Acute Diffuse Interstitial Pulmonary (*see also* Scleroderma).
Finckh, E. S.—The Failure of Experimental Renal Tubulonecrosis to Produce Oliguria in the Rat 283
Fleming, H.—Primary Pulmonary Hypertension in Eight Patients Including a Mother and Her Daughter .. .. .. .. .. .. 18
Forbes, I. J., *et alii*—Complement Fixation with Extract of Normal Thyroid Gland: Its Occurrence in Sera from Patients with Thyroid Disease and in Other Conditions .. .. 93
Fowler, K. T., and Blackburn—The Role of Physical Thought in Medical Research .. 157
Freeman, Z.—
Case, A, of Protein-Losing Enteropathy .. 303
"Q" Wave, The, and High Chest Leads: An Analysis of 425 Cases .. .. .. 144

**G**

Gastritis, Chronic Atrophic—Serum Vitamin $B_{12}$ Levels in, by I. J. Wood, D. C. Cowling, B. Ungar and A. Gray .. .. .. .. 309
Goldrick, R. B.—
Effects, The, of Diet on the Blood Coagulation Response to Alimentary Lipæmia in Healthy and Atherosclerotic Men .. .. .. 122
Serum Lipoproteins and Blood Coagulation in Healthy and Atherosclerotic Men .. .. 134
Gout, Primary—Heredity in, by B. T. Emmerson 168
Gray, A., *et alii*—Serum Vitamin $B_{12}$ Levels in Chronic Atrophic Gastritis .. .. .. 309
Gwynne, J. F.—Chronic Pyelonephritis and Hypertension .. .. .. .. .. 150

**H**

Hackett, E., *et alii*—Complement Fixation with Extract of Normal Thyroid Gland: Its Occurrence in Sera from Patients with Thyroid Disease and in Other Conditions .. .. 93
Hall, G. V., and Hickie—The Cardiomyopathies: A Report of Fifty Cases .. .. .. 258
Halliday, J. H., *et alii*—Dividends from Mitral Valvotomy: A Two to Seven Years' Follow-Up 224
Henley, W.—*Hominum Servire Saluti* .. .. 255
Heredity (*see also* Gout).
Hickie, J. V., and Hall—The Cardiomyopathies: A Report of Fifty Cases .. .. .. 258
Hillcoat, B. L.—Urinary Amino-Acid Excretion in Health and Disease .. .. .. .. 276
Holland, R. A. B., *et alii*—Veno-Arterial Shunting of Blood in Chronic Liver Disease .. .. 204
*Hominum Servire Saluti*, by W. Henley .. 255

Page

Hudson, B., *et alii*—
Observations on the Treatment of Severe Diabetic Ketosis .. .. .. .. 34
Thyroid-Stimulating Hormone and Triiodothyronine as Aids in the Diagnosis of Thyroid Disorders .. .. .. .. 194
Hughes, A., *et alii*—Small-Bowel Biopsy with the Suction Biopsy Tube .. .. .. .. 103
Hughes, P. E.—Humoral Factors in Liver Regeneration .. .. .. .. .. 41
Hypertension—
Pulmonary, Primary, in Eight Patients Including a Mother and Her Daughter, by H. Fleming .. .. .. .. .. 18
(*See also* Pyelonephritis.)

**I**

Inquiring Mind, The, by H. N. Robson.. .. 81
Iron, Plasma, and Iron-Binding Capacity Levels in Health and Disease: With an Improved Method for the Estimation of Plasma Iron Concentration and Total Iron-Binding Capacity, by E. H. Morgan and G. Carter .. .. 209

**J**

Jelihovsky, T., *et alii*—Clinico-Pathological Features of Acute Hæmorrhagic Leucoencephalitis .. .. .. .. .. 29

**K**

Kidney—
Multicystic, Unilateral, in Childhood, Morphogenesis of, by D. Bialestock .. .. 53
(*See also* Anæmia.)

**L**

Learoyd, B. M., *et alii*—Dividends from Mitral Valvotomy: A Two to Seven Years' Follow-Up 224
Leucoencephalitis, Hæmorrhagic, Acute—Clinico-Pathological Features of, by G. K. Vanderfield, M. Tompkins and T. Jelihovsky.. .. .. 29
Lipæmia (*see also* Diet).
Lipoproteins, Serum—
And Blood Coagulation in Healthy and Atherosclerotic Men, by R. B. Goldrick .. .. 134
(*See also* Atherosclerotic Arterial Disease.)
Liver Disease (*see also* Transaminase, Plasma).
Chronic (*see also* Blood).
Liver Regeneration—Humoral Factors in, by P. E. Hughes .. .. .. .. .. 41
Lovell, R. R. H., *et alii*—The Casual Arterial Pressure of Fijians and Indians in Fiji.. .. 4
Lowe, T. E.—The Concept of a Volume Receptor 69
Lupus Erythematosus (*see also* Serum Complement Levels).

**M**

Mackay, I. R.—
And Perry—Autoimmunity in Human Thyroid Disease .. .. .. .. .. 84
*Et alii*—Plasma Transaminase in Liver Disease 295
Maddocks, I., *et alii*—The Casual Arterial Pressure of Fijians and Indians in Fiji .. .. .. 4
Maddox, J. K., *et alii*—Dividends from Mitral Valvotomy: A Two to Seven Years' Follow-Up 224

Page

Magarey, F. R., and Ronai—Experimental Cholangitis following Biliary Obstruction .. 289

Martin, F. I. R., *et alii*—
Observations on the Treatment of Severe Diabetic Ketosis .. .. .. .. 34
Thyroid-Stimulating Hormone and Triiodothyronine as Aids in the Diagnosis of Thyroid Disorders .. .. .. .. .. 194

McRae, J., *et alii*—Veno-Arterial Shunting of Blood in Chronic Liver Disease .. .. 204

Medical Research (*see also* Physical Thought).

Melick, R.—Changes in Urinary Steroid Excretion During Examinations .. .. .. .. 200

Mills, F. H., *et alii*—Dividends from Mitral Valvotomy : A Two to Seven Years' Follow-Up 224

"Mirror" Movements—Report of a Family Showing, by C. Crawford .. .. .. 176

Mitral Valvotomy—Dividends from : A Two to Seven Years' Follow-Up, by B. M. Learoyd, R. B. Blacket, B. C. Sinclair-Smith, F. H. Mills, J. H. Halliday and J. K. Maddox .. .. 224

Morgan, E. H., and Carter—Plasma Iron and Iron-Binding Capacity Levels in Health and Disease : With an Improved Method for the Estimation of Plasma Iron Concentration and Total Iron-Binding Capacity .. .. .. 209

N

Nestel, P. J.—The Relationship Between Blood Fibrinolytic Activity, Serum Lipoproteins and Serum Cholesterol in Atherosclerotic Arterial Disease .. .. .. .. .. .. 234

O

O'Brien, E. N., *et alii*—Plasma Transaminase in Liver Disease .. .. .. .. .. 295

Oliguria (*see also* Tubulonecrosis).

P

Patterson, B., *et alii*—Plasma Transaminase in Liver Disease .. .. .. .. .. 295

Perry, B. T., and Mackay—Autoimmunity in Human Thyroid Disease .. .. .. 84

Physical Thought—The Role of, in Medical Research, by K. T. Fowler and C. R. B. Blackburn .. .. .. .. .. 157

Playoust, M. R.—
And Blackburn—The Use of an Aldosterone Antagonist in Patients with Cirrhosis .. 64
*Et alii*—Veno-Arterial Shunting of Blood in Chronic Liver Disease .. .. .. 204

Powell, O.—"Q" Fever : Clinical Features in 72 Cases .. .. .. .. .. .. 214

Precipitin Tests for Auto-Immunizing Thyroiditis, by D. Watson .. .. .. .. .. 99

Proceedings of The Royal Australasian College of Physicians .. .. .. .. 74, 247

Protein-Losing Enteropathy, A Case of, by Z. Freeman .. .. .. .. .. 303

Pyelonephritis, Chronic, and Hypertension, by J. F. Gwynne .. .. .. .. .. 150

Q

Page

"Q" Fever—Clinical Features in 72 Cases, by O. Powell .. .. .. .. .. .. 214

"Q" Wave, The, and High Chest Leads : An Analysis of 425 Cases, by Z. Freeman .. .. 144

R

Ralston, M., *et alii*—
Plasma Transaminase in Liver Disease .. 295
Small-Bowel Biopsy with the Suction Biopsy Tube .. .. .. .. .. .. 103

Read, J., *et alii*—
Acute Diffuse Interstitial Pulmonary Fibrosis in Scleroderma .. .. .. .. .. 271
Veno-Arterial Shunting of Blood in Chronic Liver Disease .. .. .. .. .. 204

Red-Cell Metabolism : Fundamental and Clinical Aspects, by G. C. de Gruchy .. .. .. 237

Robson, H. N.—The Inquiring Mind .. .. 81

Rogerson, G. W., *et alii*—The Casual Arterial Pressure of Fijians and Indians in Fiji .. .. 4

Ronai, P. M., and Magarey—Experimental Cholangitis following Biliary Obstruction .. 289

S

Sanctity of Life, The, by R. R. Winton .. 1

Scleroderma—Acute Diffuse Interstitial Pulmonary Fibrosis in, by J. Read, H. J. H. Colebatch and K. Viner Smith .. .. 271

Serum Complement Levels in Systemic Lupus Erythematosus and Other Diseases, by G. L. Asherson .. .. .. .. .. .. 57

Simpson, F. O., and Barnett—Primary Aldosteronism—Conn's Syndrome. Some Observations on the Effect of an Aldosterone Antagonist, Spironolactone, and Vasopressin .. .. 188

Sinclair-Smith, B. C., *et alii*—Dividends from Mitral Valvotomy : A Two to Seven Years' Follow-Up .. .. .. .. .. 224

Spironolactone (*see also* Aldosteronism).

Storey, E.—Bone Changes Associated with Cortisone Administration in the Rat. Conversion of Rickets to Osteoporosis .. .. 318

T

Taft, H. P., *et alii*—Thyroid-Stimulating Hormone and Triiodothyronine as Aids in the Diagnosis of Thyroid Disorders .. .. .. .. 194

Thatcher, R. H., *et alii*—The Seasonal Distribution of Hospital Admissions for Asthma in Brisbane .. .. .. .. .. .. 180

Thyroid Disease.
(*See also* Autoimmunity.)
(*See also* Complement Fixation.)

Thyroid Gland (*see also* Complement Fixation).

Thyroiditis, Auto-Immunizing (*see also* Precipitin Tests).

Thyroid-Stimulating Hormone and Triiodothyronine as Aids in the Diagnosis of Thyroid Disorders, by B. Hudson, D. Winikoff, H. P. Taft and F. I. R. Martin .. .. .. 194